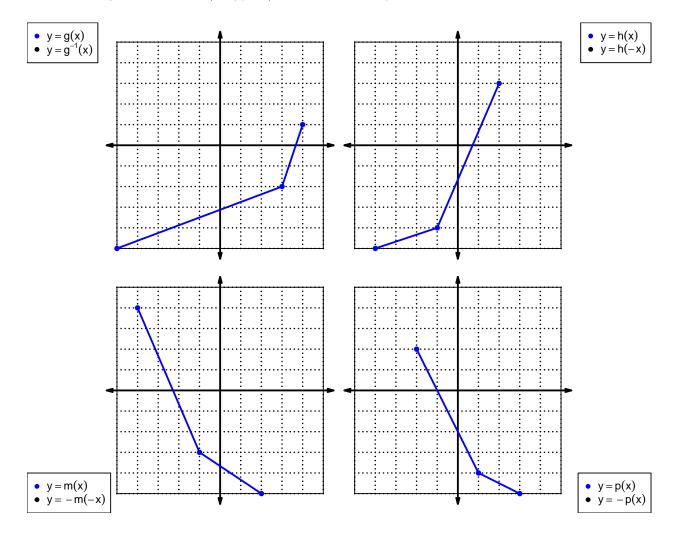
1. Let function f be defined by the polynomial below:

$$f(x) = 7x^5 + 2x^4 + 4x^3 - 8x^2 + 3x - 6$$

Draw lines that match each function reflection with its polynomial:

Reflections	Polynomials	
f(−x) •		
-f(-x) •	$\bullet \qquad 7x^5 - 2x^4 + 4x^3 + 8x^2 + 3x + 6$	
-f(x) •		

2. In each xy plane shown below, a function is graphed with blue. Draw the indicated reflections (as a second curve, indicated in legend) with black (or with whatever you have). The x axis is horizontal and the y axis is vertical (as typical), and the scale is equal on both axes.



For all questions on this page, the functions f, g, and h are defined by the table below.

x	f(x)	g(x)	h(x)
1	2	9	7
2	4	7	3
3	3	5	1
4	7	6	4
5	6	1	9
6	8	8	2
7	5	3	8
8	9	2	5
9	1	4	6

3. Evaluate g(8).

4. Evaluate $f^{-1}(5)$.

5. Assuming f is an **even** function, evaluate f(-1).

6. Assuming h is an **odd** function, evaluate h(-6).

7. A function, f, is **even** if f(x) = f(-x) for all x in the domain. A function, g, is **odd** if g(x) = -g(-x) for all x in the domain.

Let polynomial p be defined with the following equation:

$$p(x) = -x^3 + x$$

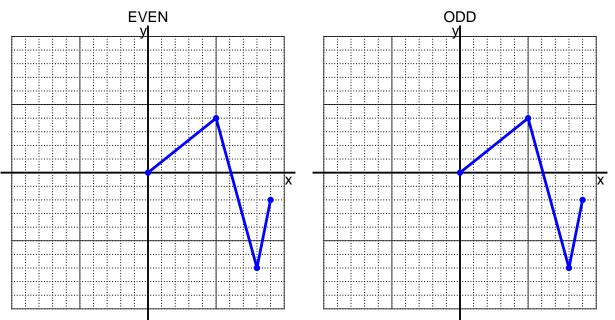
a. Express p(-x) as a polynomial in standard form.

b. Express -p(-x) as a polynomial in standard form.

c. Is polynomial p even, odd, or neither?

d. Explain how you know the answer to part c.

8. I have drawn half of a function. Draw the other half to make it even or odd.



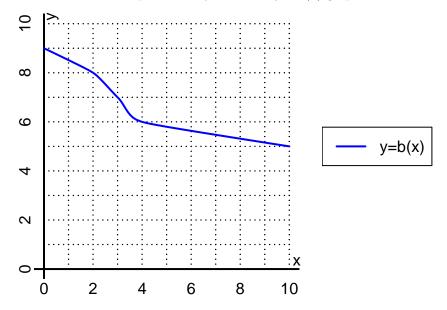
9. Let function f be defined with the equation below.

$$f(x) = \frac{x+8}{3}$$

a. Evaluate f(76).

b. Evaluate $f^{-1}(18)$.

10. The function b is represented by the curve y = b(x) graphed below.



a. Evaluate b(2).

b. Evaluate $b^{-1}(6)$.

- 11. Function f is defined by the table below.
 - a. Complete the columns for -f(x) and f(-x) and -f(-x).

\overline{x}	f(x)	-f(x)	f(-x)	-f(-x)
-2	-4			
-1	6			
0	0			
1	6			
2	-4			

b. Is function f even, odd, or neither?

c. How do you know the answer to part b?